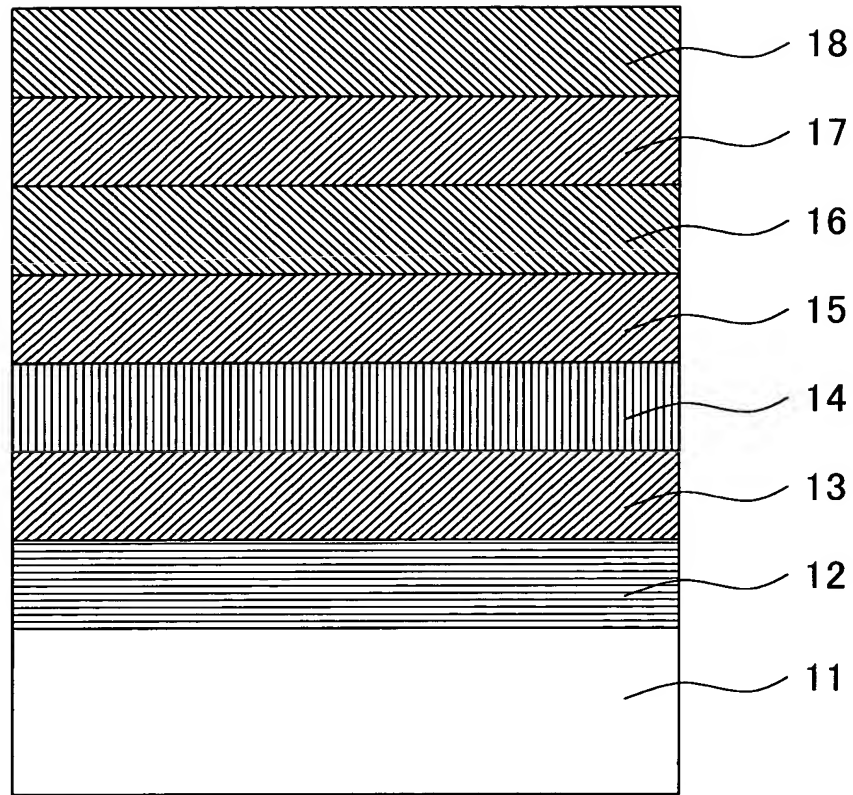


FIG.1



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FIG.2

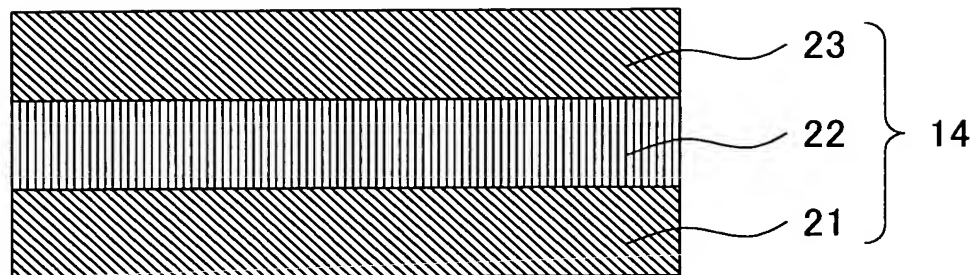


FIG.3

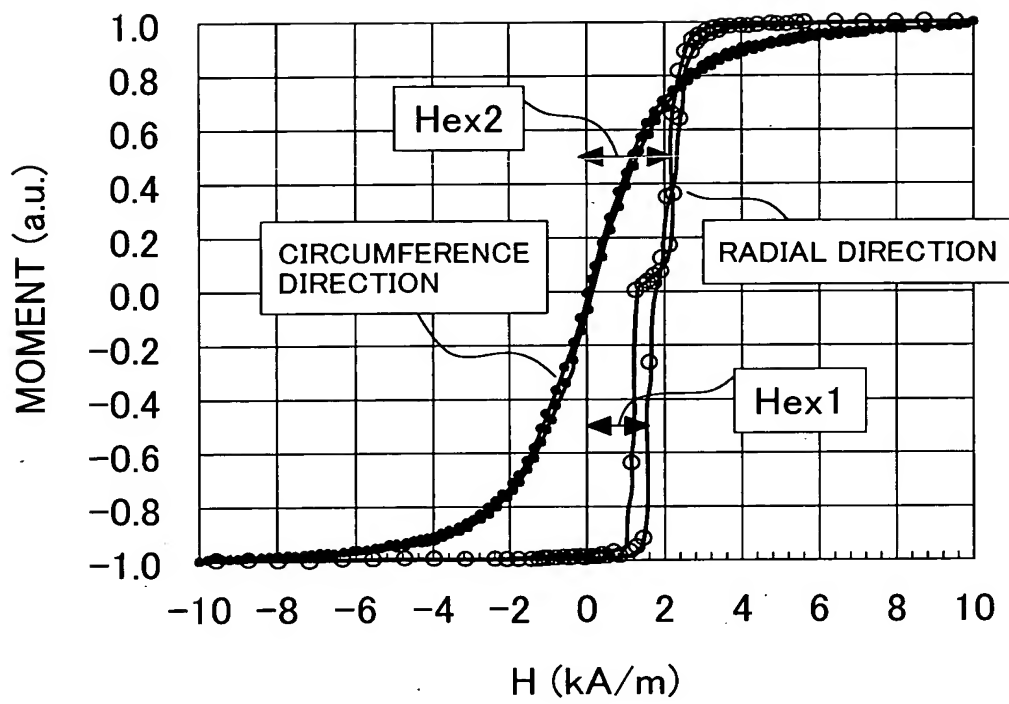


FIG.4A

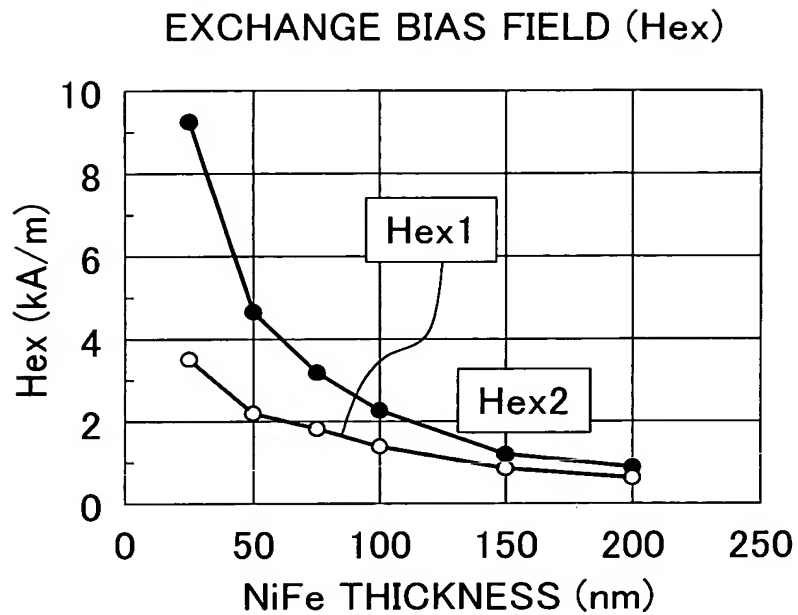


FIG.4B

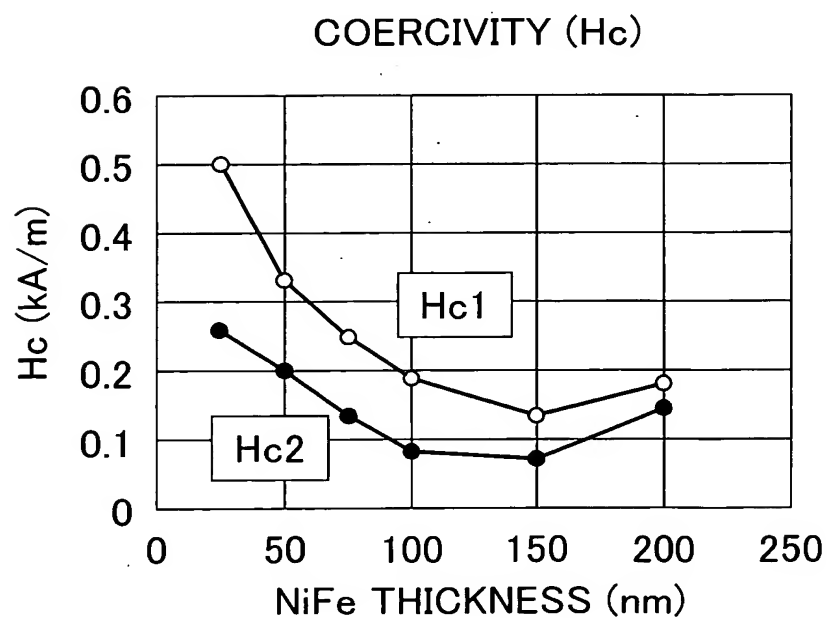


FIG.5A

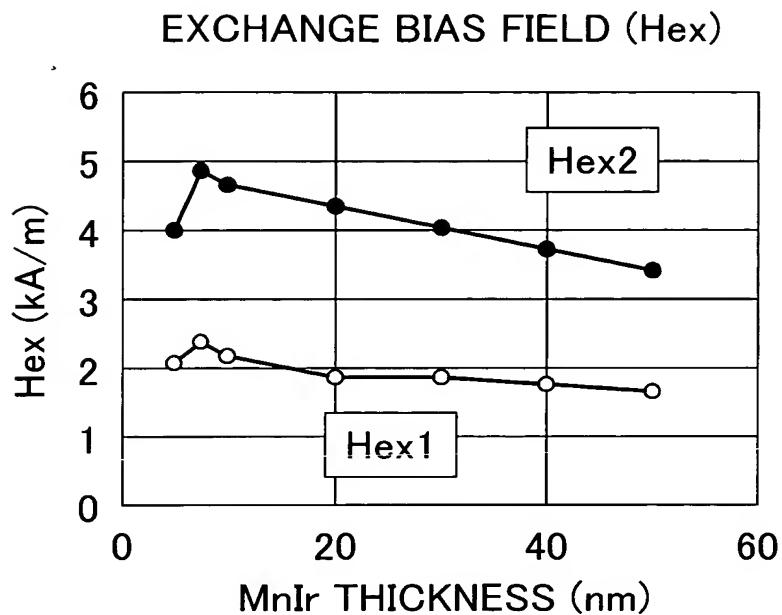


FIG.5B

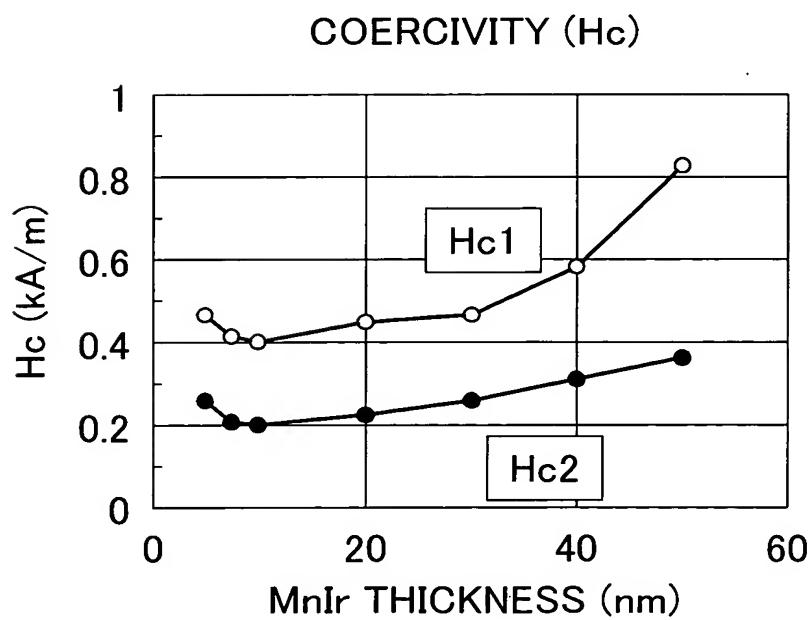
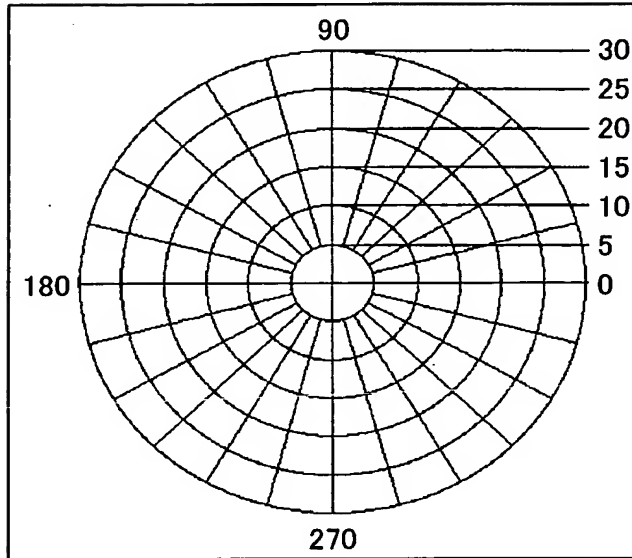
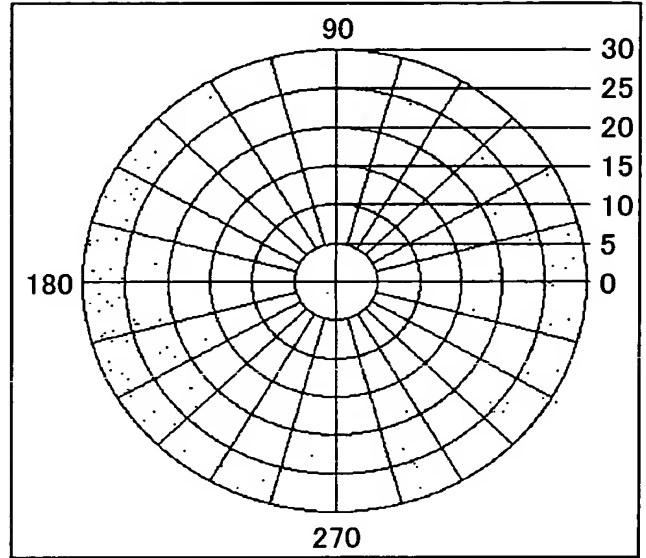


FIG.6

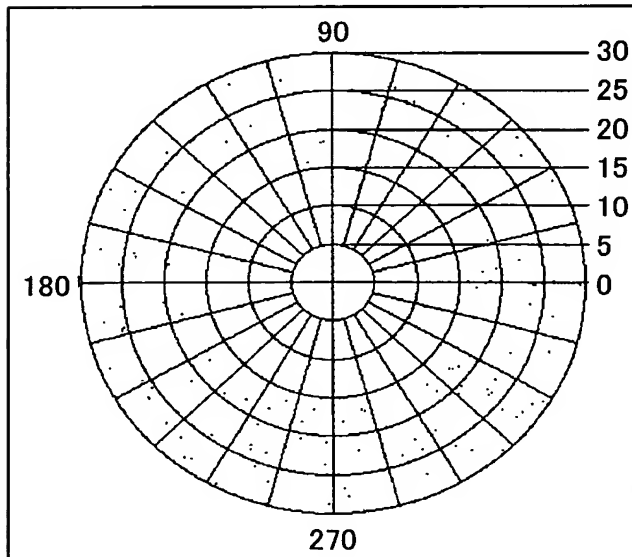
MEDIUM A



MEDIUM B



MEDIUM C



MEDIUM D (REFERENCE)

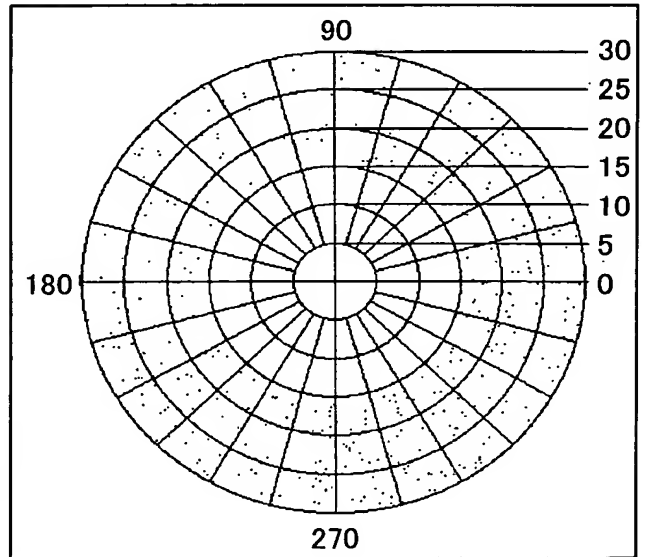


FIG.7

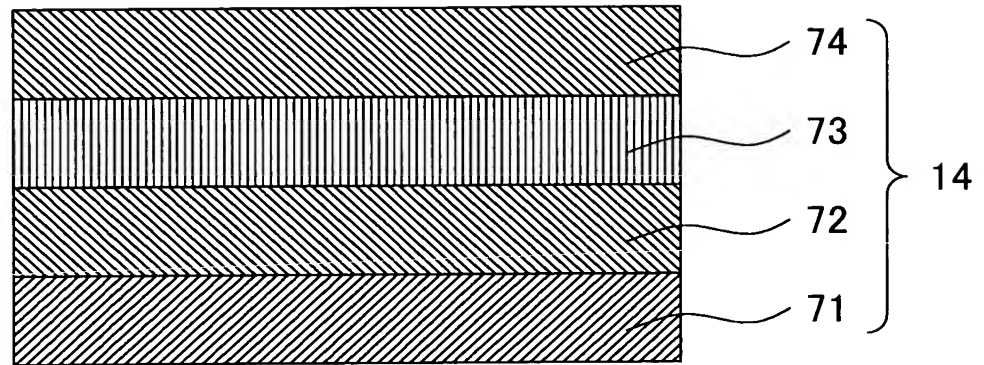
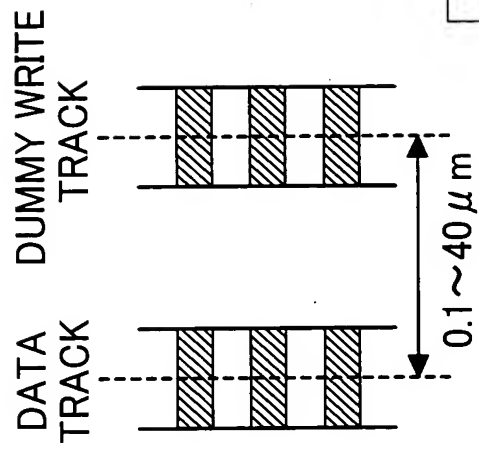


FIG.8



NUMBER OF WRITE OPERATION : 130 TIMES

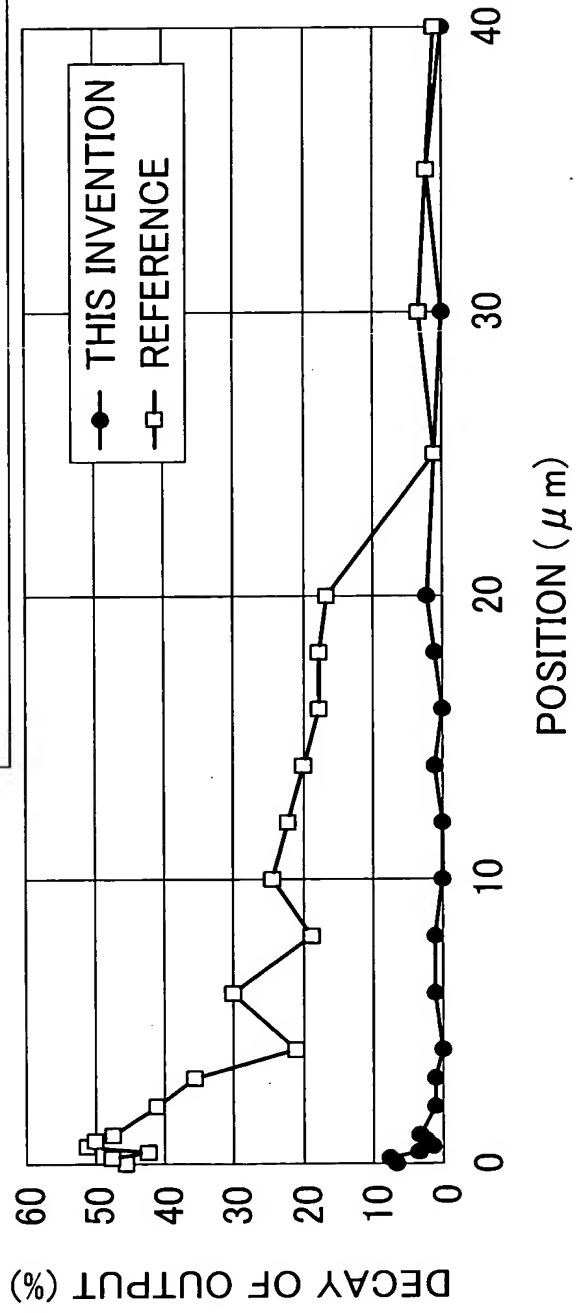


FIG.9

NUMBER OF WRITE OPERATION : 1000 TIMES
POSITION OF DUMMY WRITE TRACK : $1\ \mu\text{m}$

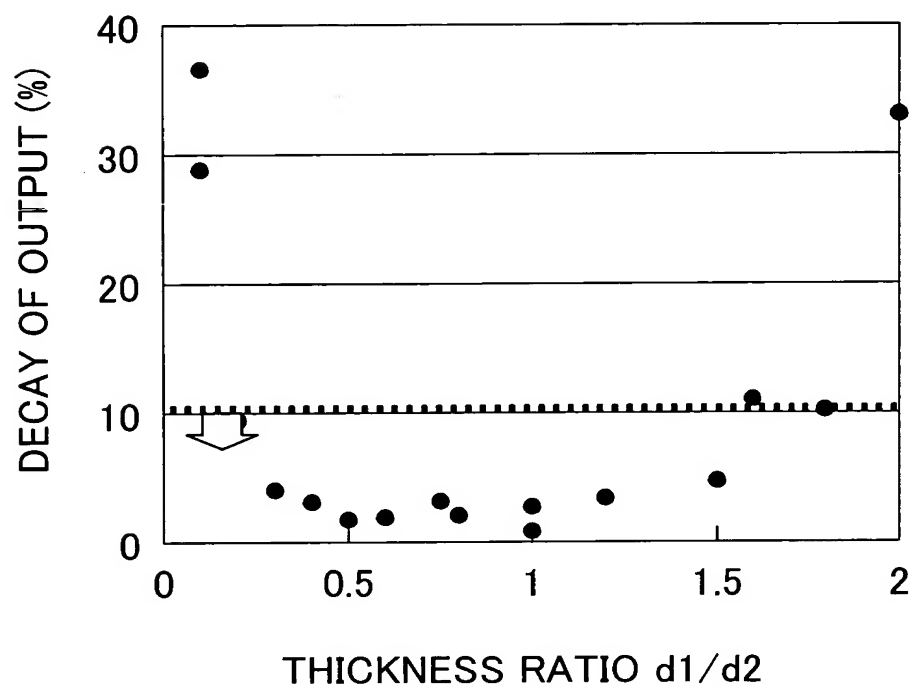


FIG.10

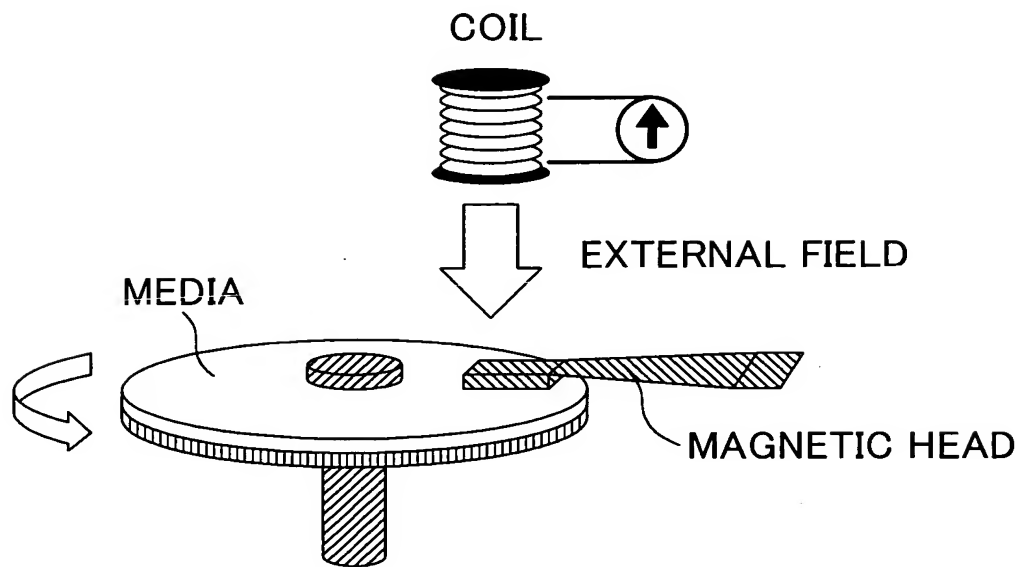


FIG.11

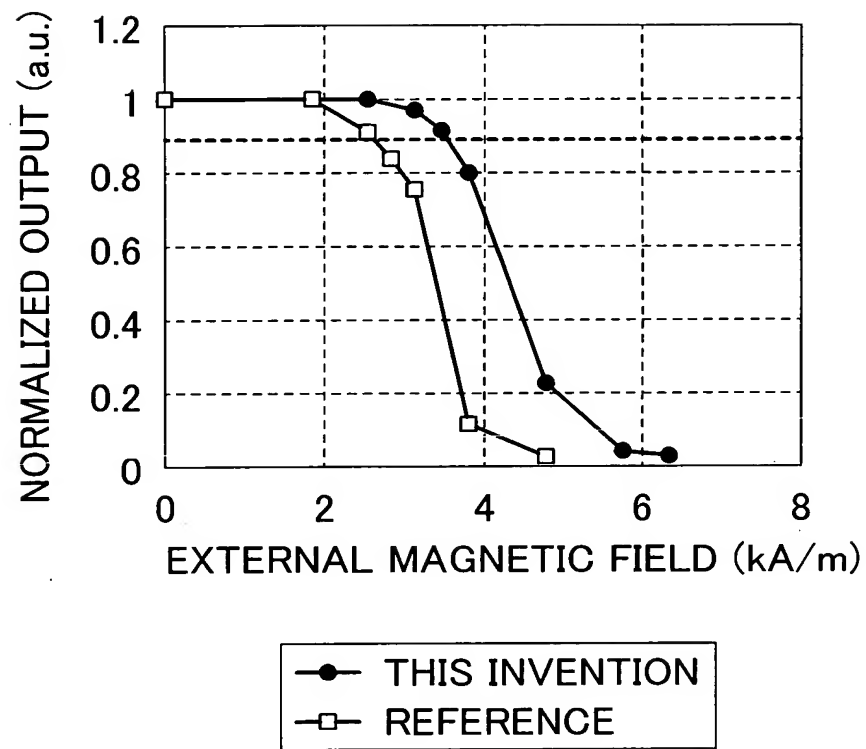


FIG.12

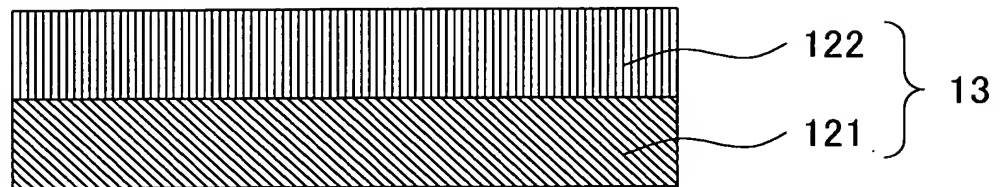


FIG.13

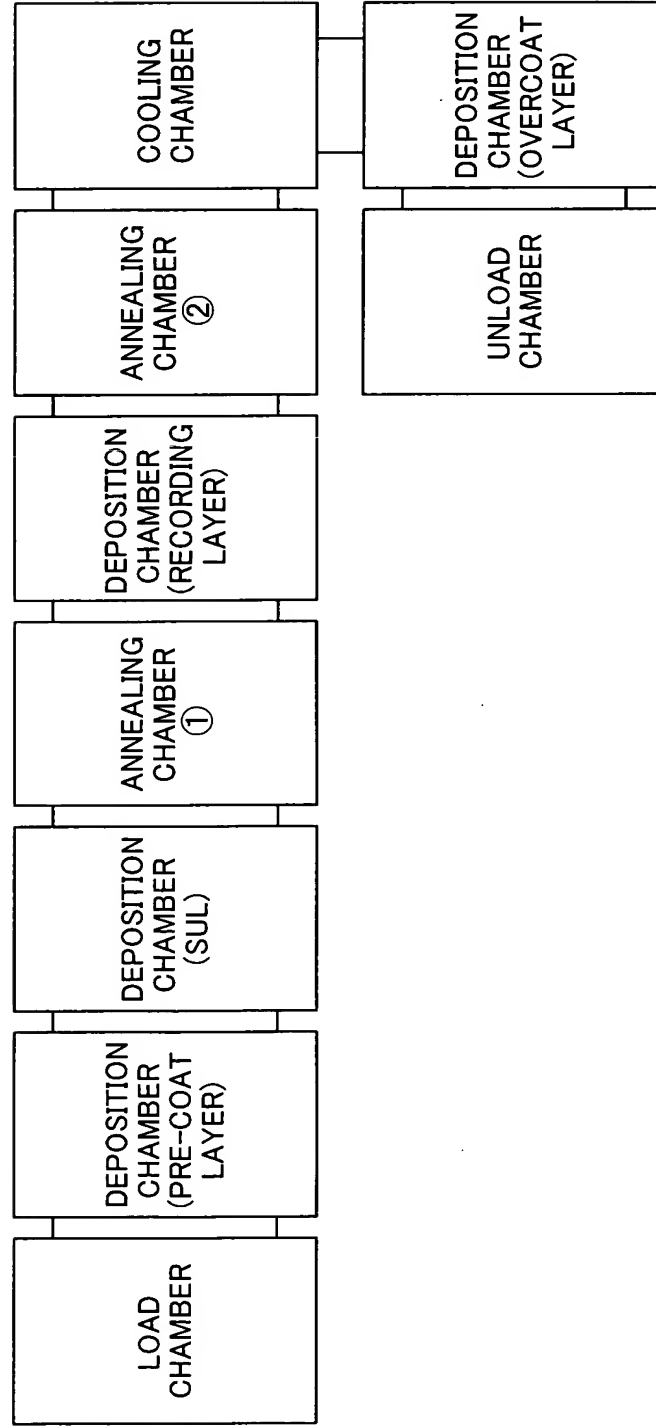


FIG.14

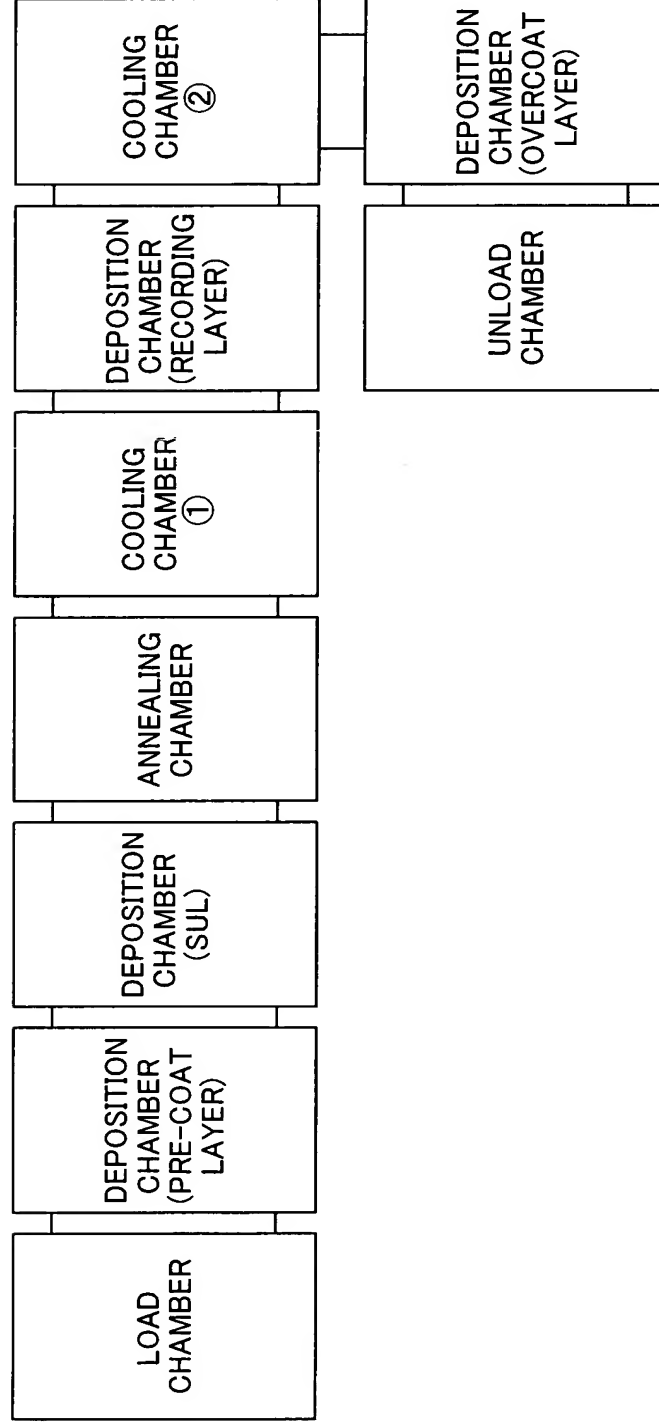


FIG.15A

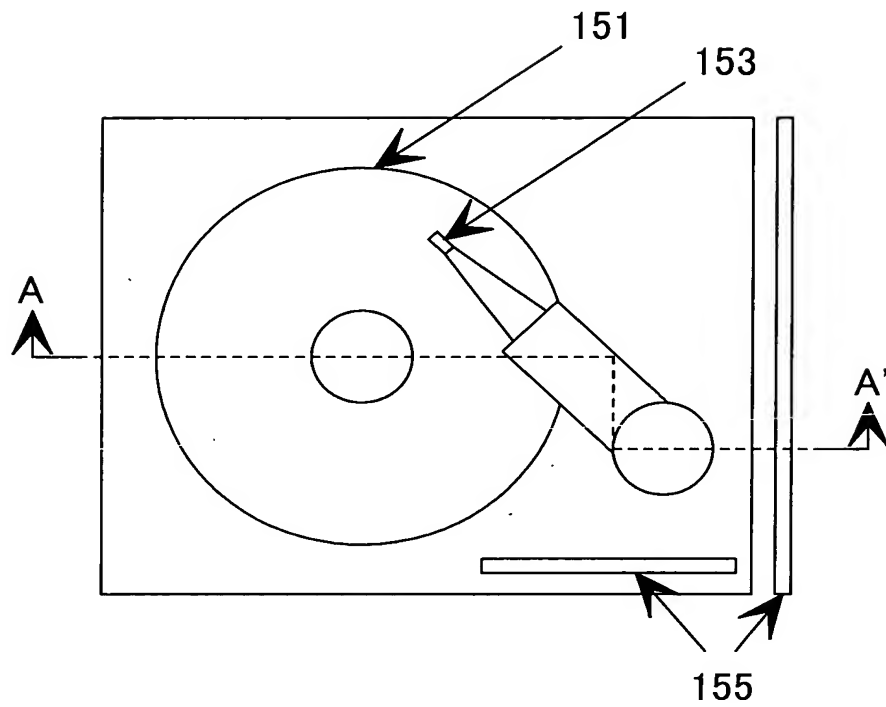


FIG.15B

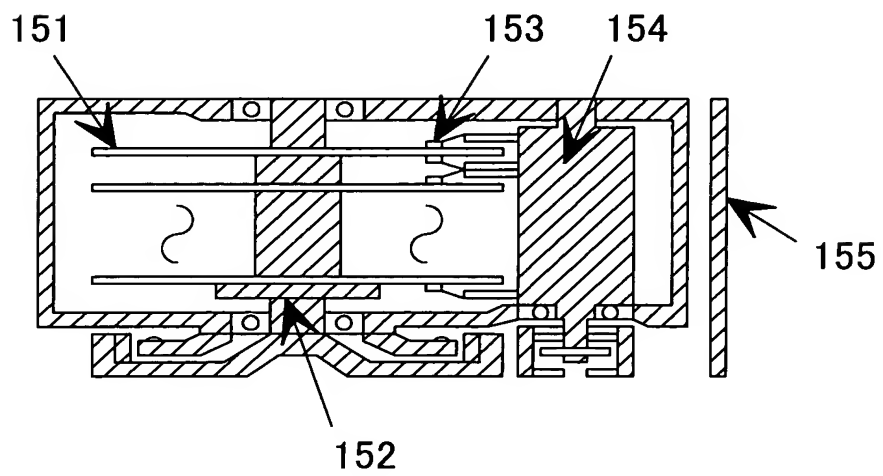


FIG.16

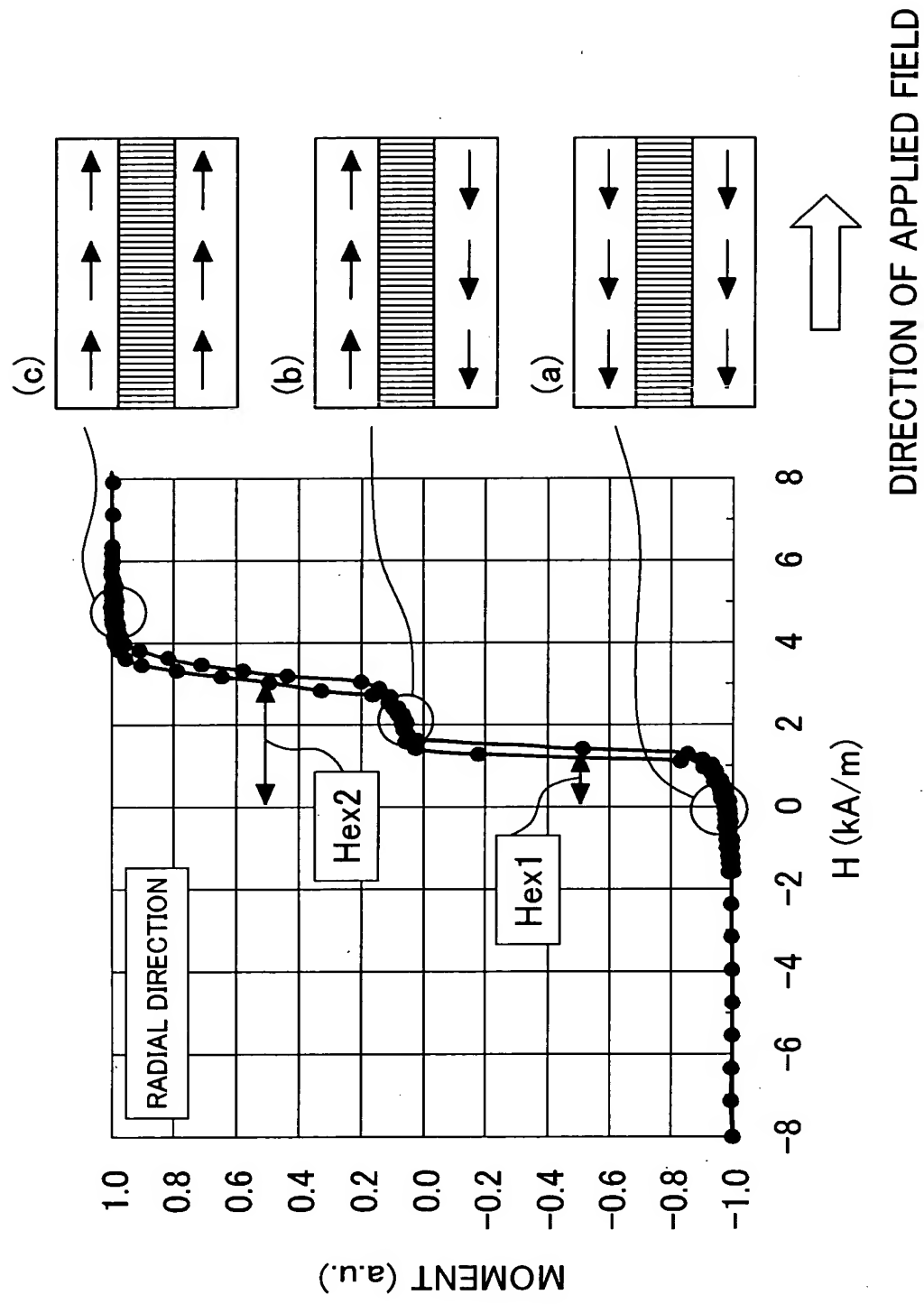


FIG.17

